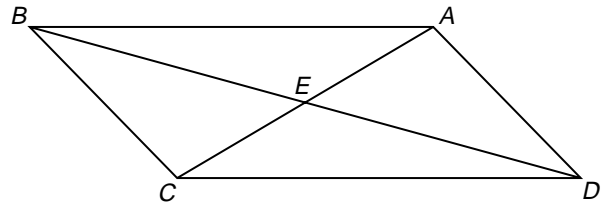


## Practice

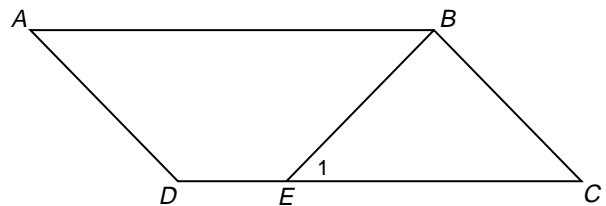
# Parallelograms

**The figure at the right is a parallelogram. Use this figure and the information given to solve each problem.**

1. If  $m\angle BCD = 125$ , find  $m\angle BAD$ .
2. If  $m\angle BAC = 45$ , find  $m\angle ACD$ .
3. If  $m\angle BEA = 135$ , find  $m\angle AED$ .
4. If  $m\angle ABC = 50$ , find  $m\angle BCD$ .
5. If  $AB = 5x - 3$  and  $CD = 2x + 9$ , find  $AB$ .
6. If  $m\angle DAB = 2x - 10$  and  $m\angle ADC = 3x$ , find  $m\angle DAB$ .
7. If  $m\angle BAD = 3x - 12$  and  $m\angle BDC = x + 40$ , find  $m\angle BAD$ .



8. Write a two-column proof.  
**Given:**  $\frac{ABCD}{BE \cong AD}$  is a parallelogram,  
**Prove:**  $\angle 1 \cong \angle C$



**Proof:**

Statements	Reasons